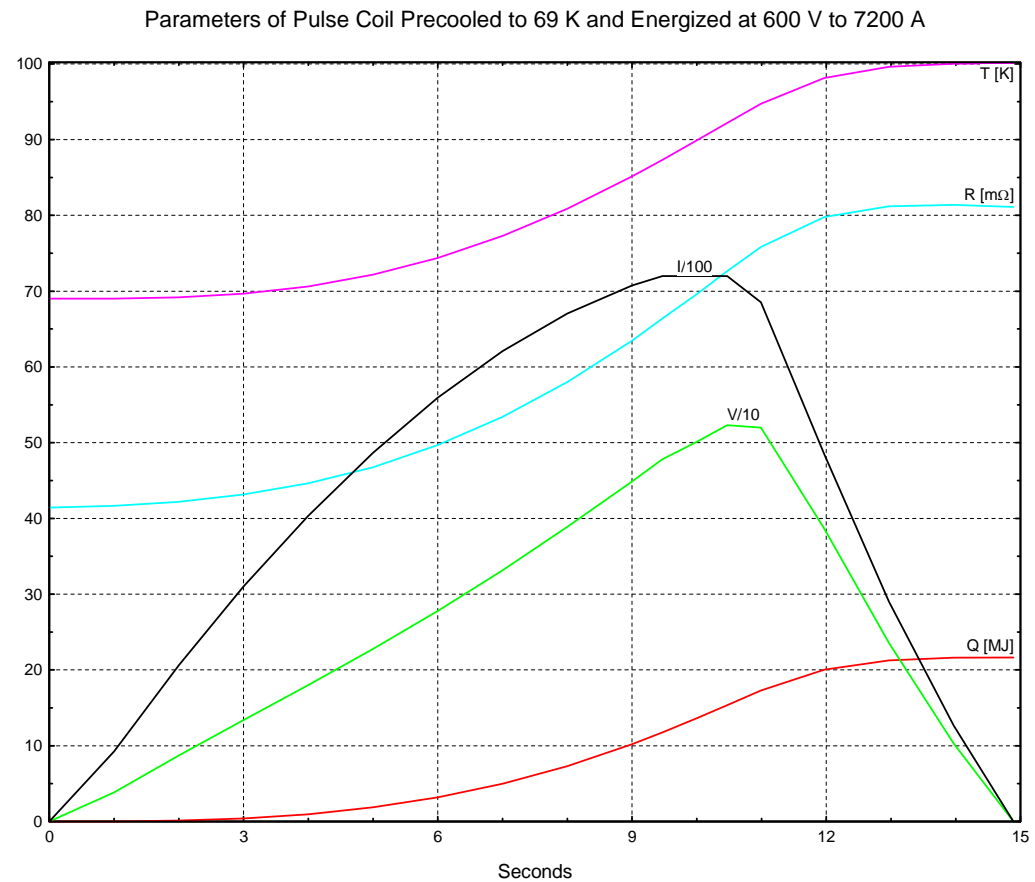


Preliminary Review of the current /voltage profiles indicates that the PTF power supplies will meet the test requirements.



PTF Power Supplies



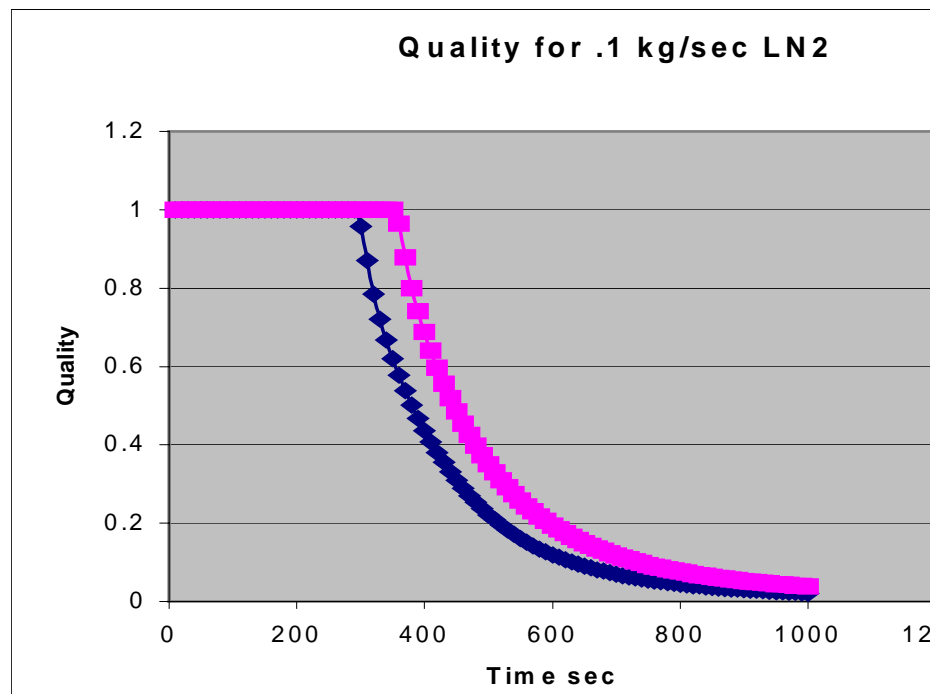
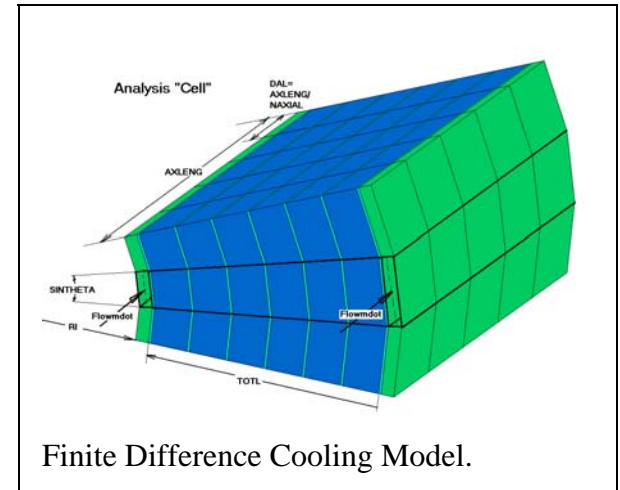
Bob Weggel's 10-14 analysis of the LN2 magnet operation

Only Liquid Nitrogen Cooling Will Be Employed During Pre-Operational Testing
C-Mod Main LN2 Supply Tank will be used with the LDX VTF supply line

Two Approaches are possible:

Flood and Wait - Then Drain and Pulse.

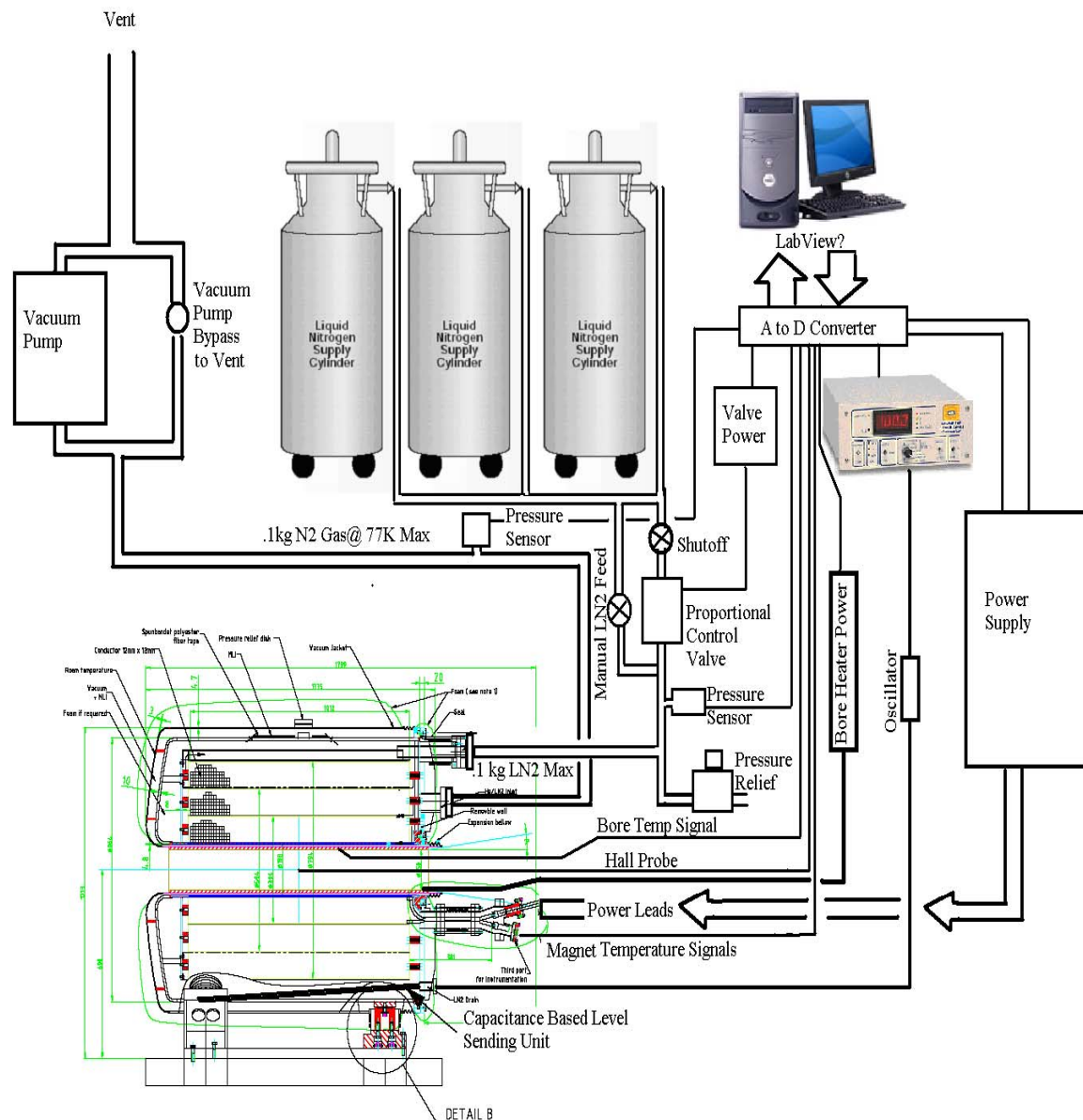
Develop and implement a “skid mounted”, deliverable Controlled LN2 Cooling System



The intention is to control the LN2 flow with a proportional valve to provide only as much LN2 as is fully vaporized by the surface heat flux. After 700 sec, this would be only $.1 * .1 = .01$ kg/sec



C-Mod's LN2 Supply Tank



**Proposed
“Elaborate” LN2
System with flow
metering capability.**

Liquid Level Sensor



The capillary sensor is the most common type of sensor including epoxies of up to 100% available. Three standard types with an pressure male NPT of connection include be removable effecting. Sensor 1. Rugged 2. Miniature 3. Radiant 4. Capillary Custom application

Capacitance based level sensor